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REP G1=(7-20) C NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

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REP G1=(7-20) C. NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

57 SEA FILE=REGISTRY SUB=L2 SSS FUL L12 L13 45 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 L14

12 SEA FILE=HCAPLUS ABB=ON PLU=ON L14 AND LIPOSOME L15

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L15 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2002 ACS 2001:283762 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

134:300798

TITLE:

Neutral-cationic lipid for nucleic acid and drug

delivery

INVENTOR(S):

Huang, Shi Kun; Zalipsky, Samuel; Zhang, Wei-Ming;

Jin, Bei; Quinn, Yolanda P.

PATENT ASSIGNEE(S):

SOURCE:

Alza Corporation, USA PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent

English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

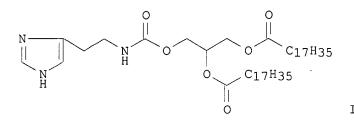
PATENT NO.	KIND DATE	APPLICATION NO.	DATE
	-		
WO 2001026629	A2 2001041	9 WO 2000-US27974	20001010
WO 2001026629	A3 2002051	0	
W: AE, AG,	AL, AM, AT, AU	, AZ, BA, BB, BG, BR, BY,	BZ, CA, CH, CN,
CR, CU,	CZ, DE, DK, DM	, DZ, EE, ES, FI, GB, GD,	GE, GH, GM, HR,
HU, ID,	IL, IN, IS, JP	, KE, KG, KP, KR, KZ, LC,	LK, LR, LS, LT,
LU, LV,	MA, MD, MG, MK	, MN, MW, MX, MZ, NO, NZ,	PL, PT, RO, RU,
SD, SE,	SG, SI, SK, SL	, TJ, TM, TR, TT, TZ, UA,	UG, UZ, VN, YU,

ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,

CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1999-158693P P 19991008

MARPAT 134:300798 OTHER SOURCE(S):



A lipid represented by formula (I) was prepd. from 1,2-distearoyl-sn-AΒ glycerol, p-nitrophenyl chloroformate, and histamine. The lipid was used to prep. liposomes into which DNA was encapsulated. The product is intended for use in delivery of genes to cells for purposes of gene therapy or genetic engineering.

334865-90-6P ΙT

> RL: PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP
> (Preparation); PROC (Process); USES (Uses) (neutral-cationic lipid for nucleic acid and drug delivery)

=> d ibib abs hitrn 115 2-12

L15 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2002 ACS

2001:2141 HCAPLUS ACCESSION NUMBER:

134:204091 DOCUMENT NUMBER:

Design of supported membranes tethered via TITLE:

metal-affinity ligand-receptor pairs

Radler, Ulf; Mack, Jurgen; Persike, Norbert; Jung, AUTHOR(S):

Gunther; Tampe, Robert

Cellular Biochemistry and Biophysics, Institute for CORPORATE SOURCE:

Physiological Chemistry, Medical School,

Philipps-University Marburg, Marburg, D-35033, Germany Biophysical Journal (2000), 79(6), 3144-3152

SOURCE:

CODEN: BIOJAU; ISSN: 0006-3495

Biophysical Society PUBLISHER:

DOCUMENT TYPE: Journal English LANGUAGE:

Model lipid layers are very promising in investigating the complex network of recognition, transport and signaling processes at membranes. We have developed a novel and generic approach to create supported lipid membranes tethered by metal-affinity binding. By self-assembly we have generated various interfaces that display histidine sequences (6xHis) via polymer spacers. These histidine-functionalized interfaces are designed to allow specific docking and fusion of vesicles contg. metal-chelating lipids. means of surface plasmon resonance and at. force microscopy we analyzed the formation and subsequently the structure of these solid-supported membranes. Although the affinity const. of single ligand-receptor pairs

is only in the micromolar range, very stable immobilization of these membranes was obsd. This behavior can be explained by multivalent interactions resembling many features of cell adhesion. The process is highly specific, because vesicle docking and bilayer formation are strictly dependent on the presence of metal-affinity ligand-receptor pairs. The surface accessibility and geometry of these tethered membranes were probed by binding of histidine-tagged polypeptides. The supported membranes show adsorption kinetics and values similar to planar supported monolayers. Using various combinations of metal-chelating and histidine-tagged lipids or thiols these metal-affinity-tethered membranes should make a great impact on probing and eventually understanding the dynamic dialog of reconstituted membrane proteins.

ΙT 329008-69-7

> RL: BSU (Biological study, unclassified); BIOL (Biological study) (PAM3Cys-(Gly-Ser)8-(His)6-OH; self assembly of supported membranes tethered via metal-affinity ligand-receptor pairs)

THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 43 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2002 ACS 1999:655914 HCAPLUS ACCESSION NUMBER:

131:269275 DOCUMENT NUMBER:

Amphipathic pH sensitive compounds and delivery TITLE:

> systems for delivering biologically active compounds Wolff, Jon A.; Budker, Vladimir; Gurevich, Vladimir

PATENT ASSIGNEE(S): USA

SOURCE: U.S., 33 pp. CODEN: USXXAM

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

INVENTOR(S):

PATENT NO. KIND DATE APPLICATION NO. DATE US 5965434 19991012 US 1994-365841 19941229

OTHER SOURCE(S): MARPAT 131:269275

The present invention provides amphipathic lipid compds. comprising a hydrophilic, cationic, pH-sensitive moiety, the pos. charge of which moiety increases as pH decreases over the pH range of 8.0 to 4.5. These compds. have the structure R1COOCH2CH(OCOR2)CH2R3 [R1,R2=CH3(CH2)12, CH3(CH2)14, CH3(CH2)7CH:CH(CH2)7; R3=1-methylimidazole, cysteamine, morpholine, etc.] or R1COOCH2CR3(OCOR2)CH2OCOR4 [R1,R2,R4=R1,R above; R3=tris(2-aminoethyl)amine, hydroxylamine, pentaethylenehexamine, diethanolamine, or 3,3'-diamino-N-methyldipropylamine]. Vesicular delivery systems comprising such amphipathic compds. and the use of those systems for delivering biol. active substances to cells are also provided. Thus, numerous pH-sensitive amphiphiles were synthesized and incorporated into liposomes which were used for transfection of mammalian cells. Transfection was more efficient with liposomes contg. the compds. of the invention than those contg. such prior art cationic lipids such as lipofectin and lipofectamine. Addnl., the pH-sensitive amphiphiles were less cytotoxic than lipofectin and lipofectamine.

ΙT 191990-30-4P 191990-32-6P 191990-33-7P 245402-82-8P

> RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amphipathic pH sensitive compds. and delivery systems for delivering

biol. active compds.)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1999:82463 HCAPLUS

DOCUMENT NUMBER: 130:316511

TITLE: Targetability of the pendant type polyethyleneglycol-

immunoliposomes in vivo

AUTHOR(S): Takizawa, Tomoko; Maruyama, Kazuo; Iwatsuru, Motoharu;

Sasaki, Katsunori

CORPORATE SOURCE: Fac. Pharm. Sci., Teikyo Univ., Kanagawa, 199-0195,

Japan

SOURCE: Drug Delivery System (1998), 13(6), 407-414

CODEN: DDSYEI; ISSN: 0913-5006

PUBLISHER: Nippon DDS Gakkai Jimukyoku

DOCUMENT TYPE: Journal LANGUAGE: Japanese

Drug delivery to specific cells by immunoliposomes represents a potentially attractive made of therapy. However, though immunoliposomes are effective in specific binding to target cells in vitro, their targeting efficiency in vivo is relatively low. We have recently developed a new type of polyethyleneglycol (PEG)-immunoliposomes, so-called pendant-type PEG-immunoliposome, which are carried by monoclonal antibodies at the distal ends of PEG chains. Pendant-type PEG immunoliposomes showed high targetability in vivo. In this study, we have synthesized other PEG derivs. with reactive residues at the distal terminal of PEG chains, i.e., DSPE PEG-COOLI, DPPE-PEG Mal and DPPE-PEG-CDI. PEG-liposomes composed of ePC/CH (2:1, m/m) and 6 mol% of PEG deriv. were prepd. and a monoclonal IgG antibody, 34A, which is highly specific to pulmonary endothelial cells, was conjugated to the terminal of PEG-COOH-, PEG Mal- or PEG-CDI-liposomes. PEGliposomes without antibodies showed the prolonged circulation time and the reduced RES uptake. All 34A-PEG immunoliposomes showed high targeting efficiency to the lung in BALB/c mice. This approach provides a simple means of conjugating antibodies or ligands directly, and should contribute to development of superior targetable drug delivery vesicles for use in diagnostics and therapy.

IT 170010-52-3

RL: BPR (Biological process); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(targetability of the pendant type polyethyleneglycol-immunoliposomes in vivo)

L15 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1998:744950 HCAPLUS

DOCUMENT NUMBER: 130:17237

TITLE: Lipid soluble steroid prodrugs INVENTOR(S): Unger, Evan C.; Shen, Dekang PATENT ASSIGNEE(S): Imarx Pharmaceutical Corp., USA

SOURCE: PCT Int. Appl., 175 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 9850040 A1 19981112 WO 1998-US7492 19980415 W: AU, BR, CA, JP RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, US 6090800 20000718 US 1997-851780 19970506 Α AU 9869719 19981127 AU 1998-69719 Αl 19980415 PRIORITY APPLN. INFO.: US 1997-851780 A 19970506 WO 1998-US7492 W 19980415 OTHER SOURCE(S): MARPAT 130:17237 The present invention is directed to novel lipid sol. steroid prodrugs, compns. comprising steroid prodrugs, and uses of the same. Thus, dexamethasone was allowed to esterify with 1,2-dipalmitoyl-sn-glycero-3succinate to produce the ester which was mixed with DPPC, DPPA and DPPE-PEG. Drug-entrapped vesicles were obtained in which no dexamethasone was detected in washes or supernatants. 216012-51-0P RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (lipid sol. steroid prodrugs) REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L15 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2002 ACS 1997:453971 HCAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 127:162074 TITLE: Supramolecular Transformations of Vesicles from Amino Acid Based Double Chain Amphiphiles AUTHOR(S): Cescato, Claudio; Walde, Peter; Luisi, Pier Luigi CORPORATE SOURCE: Institut fuer Polymere, ETH-Zentrum, Zurich, CH-8092, Switz. SOURCE: Langmuir (1997), 13(16), 4480-4482 CODEN: LANGD5; ISSN: 0743-7463 PUBLISHER: American Chemical Society DOCUMENT TYPE: Journal LANGUAGE: English GI

$$\begin{array}{c|c}
 & O & O & O \\
 & O & O & P - O - CH_2 \\
 & O & OH & OH
\end{array}$$

AB Amino acid double chain amphiphiles Me(CH2)10CO-L-Glu-NH(CH2)11Me and Me(CH2)10CO-L-Arg-NH(CH2)11Me.AcOH, as well as glycerol derivs. I [R1 = R2 = Me(CH2)12; R1 = Me(CH2)14, R2 = Me(CH2)7CH:CH(CH2)7] were prepd. and investigated with respect to their capacity of vesicle formation. While vesicles could be prepd. from all these amphiphiles above the phase transition temp. (Tc), the Glu- and Arg-lipid showed a vesicle-helical transformation if cooled and kept below Tc.

Ι

IT 193764-36-2P 193764-38-4P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

(prepn. and supramol. transformations of vesicles from amino acid based double chain amphiphiles)

L15 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2002 ACS 1995:905321 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 123:296611

TITLE: Phospholipid derivative and vesicle comprising the

same.

INVENTOR(S): Miyazaki, Tsuyoshi; Maruyama, Kazuo; Iwatsuru,

Motoharu; Sanchika, Kouzoh; Nishida, Mitsuhiro;

Yasukohchi, Tohru; Kitano, Shigeru; Suginaka, Akinori;

Kadoma, Yoshihito

PATENT ASSIGNEE(S):

SOURCE:

Nof Corp., Japan Eur. Pat. Appl., 33 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. 1	DATE
EP 657463	A1	19950614	EP 1994-309061	19941206
R: CH, DE,	FR, GB	, IT, LI,	NL, SE	
JP 07157493	A2	19950620	JP 1993-305611	19931206
JP 07157441	A2	19950620	JP 1993-305612	19931206
JP 07165770	A2	19950627	JP 1993-317026	19931216
JP 07165771	A2	19950627	JP 1993-317027	19931216
JP 07291853	A2	19951107	JP 1994-135954	19940617
US 5463066	A	19951031	US 1994-349368	19941205
US 5540935	A	19960730	US 1994-349362	19941205
PRIORITY APPLN. INFO.	. :		JP 1993-305611	19931206
			JP 1993-305612	19931206
			JP 1993-317026	19931216
			JP 1993-317027	19931216
			JP 1994-135954	19940617
			JP 1994-35094	19940304

Phospholipid derivs. of polyoxyalkylenes and phosphatidylethanolamines AB terminated with an imidazolecarbonyl group are prepd. and used to form vesicles and to attach functional substances to those vesicles.

170010-50-1P 170010-51-2P 170010-52-3P IT 170010-53-4P

> RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (polyoxyalkylene phospholipid imidazole derivs. for liposomes

L15 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1995:229249 HCAPLUS

DOCUMENT NUMBER:

122:4960

TITLE:

Stabilization of immobilized hapten-containing

liposomes with antibody for hapten

determination

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

Fujita, Minoru; Kida, Masaaki Wako Pure Chem Ind Ltd, Japan Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

> PATENT NO. KIND DATE APPLICATION NO. _____

JP 06218272 A2 19940809 JP 1992-328858 19921113 Disclosed is a method using antibody to stabilize immobilized hapten-contg. liposomes. The immobilized hapten-contg. liposomes are used for hapten detn. In example, immobilized
hapten-contg. liposomes were prepd. with cholesterol, dimyristoylphosphatidylcholine, dimyristoylphosphatidylglycerol, and dipatmitoylphosphatidylethanolamine modified with phenytoin, digoxin, or triiodothyronine, and stabilized with antibody to these haptens. These liposomes were used for phenytoin, digoxin, or triiodothyronine

detn. 159510-52-8P ΙT

> RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (stabilization of immobilized hapten-contg. liposomes with antibody for hapten detn.)

HCAPLUS COPYRIGHT 2002 ACS L15 ANSWER 9 OF 12 1991:607992 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 115:207992

Preparation of imidazole-containing phospholipids as TITLE:

ligands for iron-porphyrin complexes

Tsuchida, Hidetoshi; Kon, Yoshuki; Babe, Takeshi; Hasegawa, Etsuo; Nishide, Hiroyuki INVENTOR(S):

PATENT ASSIGNEE(S): Zaidan Hojin Seisan Kaihatsu Kagaku Kenkyusho, Japan;

> Nippon Oil and Fats Co., Ltd. Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE DATE _____ JP 03128358 A2 JP 1989-182328 19890713 19910531

B4 19931015 JP 05073757

OTHER SOURCE(S): MARPAT 115:207992

GT

SOURCE:

CH2O2C(CH2)mMe CHO₂C (CH₂)_n - N

 $CH_2OP(O)(O^-)OCH_2CH_2N^+Me_3$ I

2-[(2-Methyl-1-imidazolyl)alkanoyl]lysolecithins (I; m = 12-16; n = 2-16)AB 10-18), useful as ligands for ribosome-enclosed iron-porphyrin complexes which absorb and desorb O and function as blood substitutes, are prepd.

```
Thus, 4.0g DCC and 2.0g dimethylaminopyridine were added a soln. of 1.0g
     1-myristoyl-sn-glycero-3-phosphocholine [prepd. by hydrolysis of
     1,2-dimyristoryl-sn-glycero-3-phosphocholine (II)] and 1.0g
     11-[1-(2-methylimidazolyl)]undecanoic acid (prepd. by coupling of
     2-methylinidazole with tert-Bu 11-bromoundecanoate followed by hydrolysis)
     in DMF and the mixt. was allowed to react at room temp. for 24 h to give
     19.9% sn-I (m = 12, n = 10) (II). Lipid heme-II complexes enclosed in
     liposomes of II dispersed in 1/30 mM phosphate buffer (pH 7.4)
     were treated with H2S2O4 to give the deoxygenated complex soln. and
     thereto O was blown into to immediately show a visible spectrum with
     .lambda.max of 425, 546 nm corresponding to the O complex. When N was
     blown into the soln., the visible spectrum was reversibly changed.
     136681-11-3P 136681-12-4P
TΤ
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of, as phospholipid ligand for iron-porphyrin complex)
L15 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2002 ACS
                         1990:50822 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                        .112:50822
                         Oxýgenation of porphinatoiron(II) complexes with
TITLE:
                         imidazole-containing glycerophosphocholines in
                         phospholipid bilayers
                         Tsuchida, Eishun; Hasegawa, Etsuo; Chika, Yuzuru;
AUTHOR(S):
                         Babe, Takeshi; Nishide, Hiroyuki
CORPORATE SOURCE:
                         Dep. Polym. Chem., Waseda Univ., Tokyo, 169, Japan
                         Chem. Lett. (1989), (10), 1727-30
SOURCE:
                         CODEN: CMLTAG; ISSN: 0366-7022
DOCUMENT TYPE:
                         Journal
                         English
LANGUAGE:
     Diacylqlycero-3-phosphocholine derivs. having an imidazole ligand at the
     terminus of the acyl chain in the 2nd position of the glycerol backbone
     were synthesized as hemoprotein models. The amphiphilic ligands formed
     lipid bilayers with phospholipids and the heme complexes gave O complexes
     in water (pH 7.4) at 25.degree..
TΤ
     124656-93-5P 124656-94-6P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. and amphiphilic heme complexation in bilayer membranes with,
        hemoprotein model in relatin to)
IT
     124656-93-5DP, complexes with amphiphilic heme
     124656-94-6DP, complexes with amphiphilic heme
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. and oxygen binding by, in phosphatidylcholine bilayer membrane,
        hemoprotein model in relation to)
L15 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
                         1987:473841 HCAPLUS
DOCUMENT NUMBER:
                         107:73841
TITLE:
                         Liposome immunoassay reagent and method
                         Kung, Viola Tze; Canova-Davis, Eleanor; Redemann, Carl
INVENTOR(S):
                         Temple
                         Cooper-Lipotech, Inc., USA
PATENT ASSIGNEE(S):
                         PCT Int. Appl., 56 pp.
SOURCE:
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                           APPLICATION NO. DATE
```

KIND DATE

PATENT NO.

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WO 8604682
                        A1
                              19860814
                                              WO 1986-US279
                                                                 19860207
         W: JP
         RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE
                                              US 1985-699860
                              19861111
     US 4622294
                        Α
                                              EP 1986-901277
     EP 215027
                        Α1
                              19870325
                                                                 19860207
         R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE
                              19870716
                        T2
     JP 62501800
                                              JP 1986-501117
                                                                 19860207
                                              US 1986-898440
     US 4783400
                              19881108
                                                                 19860820
                        Α
PRIORITY APPLN. INFO.:
                                           US 1985-699860
                                                                 19850208
                                           CA 1986-501398
                                                                 19860207
                                           WO 1986-US279
                                                                 19860207
     A liposome assay reagent for the detn. of an analyte in a
AB
     homogeneous immunoassay comprises a suspension of oligolamellar lipid
     vesicles contq. encapsulated glucose-6-phosphate dehydrogenase (G6PD), at
     a specific activity of .apprx.1-15 units/.mu.mole vesicle lipid, and
     glucose-6-phosphate (G6P) at a concn. of .apprx.2-50, preferably
     .apprx.5-25 mM. The vesicles have surface-bound ligands that bind
     specifically and with high affinity to sol. anti-ligands to procedure cell
     lysis and enzyme release from the liposomes on addn. of serum
     complement. The encapsulated G6P protects the enzyme against inactivation
     during prepn. by reverse phase evapn. in the presence of org. solvent, and during storage as an aq. suspension. The dipalmitoylphosphatidylethanolam ine (DPPE) amide of 3-(4-carboxybutyl)5,5-diphenylhydantoin (I) was prepd.
     from Na phenytoin by reaction with 5-bromovalerate Me ester, acid
     hydrolysis, and reaction with DPPE in the presence of
     diclohexylcarbodiimide and triethylamine. Liposomes contq. I
     and encapsulated G6PD (7 units/.mu.mol) and G6P (8 mM) were formed by
     reverse phase evapn. and purified by mol.-sieve chromatog. to make a
     stable lipid vesicle reagent. A competitive inhibition assay for
     phenytoin comprised (1) reaction of reagent, sample, and antibody to
     phenytoin; (2) incubation of the mixt. with guinea pig serum (contg.
     complement), NAD, and G6P; (3) stopping the reaction with Na2CO3; and (4) measuring released G6PDH at 340 nm. The assay showed linearity and
     sensitivity over a 2.5-30 .mu.g/mL phenytoin range.
IT
     109738-39-8P
     RL: SPN (Synthetic preparation); PREP (Preparation)
         (prepn. and use of, in liposome reagent formation, for
        phenytoin immunoassay)
L15 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2002 ACS
                           1986:586645 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                           105:186645
                           Location of electron-transfer centers in
TITLE:
                           membrane-bound NADPH-cytochrome P-450 reductase
                           Krainev, A. G.; Weiner, L. M.; Mitrofanov, D. V.;
AUTHOR(S):
                           Lyakhovich, V. V. Inst. Chem. Kinet. Combust., Novosibirsk, USSR
CORPORATE SOURCE:
                           Biol. Membr. (1986), 3(8), 816-22
SOURCE:
                           CODEN: BIMEE9
DOCUMENT TYPE:
                           Journal
LANGUAGE:
                           Russian
     The location of NADPH-cytochrome P 450 reductase (I) prosthetic groups
     (FAD and FMN) relative to the membrane surface was studied. For this
     purpose, liposomes prepd. from egg lecithin contg. spin-labeled
     analogs of stearic acid and phosphatidylcholine were employed. The temp.
     dependence of the redn. rates of these compds. by ascorbate allowed the
```

Proteoliposomes contg. highly purified I of rat liver and spin labels were

location of the nitroxyl labels in respect to the membrane surface.

obtained by Na cholate solubilization followed by reconstitution on

Sephadex LH-20. The rates of NADPH-dependent spin label redn. were estd. in these proteoliposomes at temps. of 2-32.degree.. The results indicated that I active centers are located near the membrane surface. IT 104953-05-1 RL: RCT (Reactant) (reaction of, with NADPH-cytochrome P 450 reductase in liposomes, kinetics of) => => select hit rn 115 1-12 E1 THROUGH E20 ASSIGNED => fil rea FILE 'REGISTRY' ENTERED AT 13:55:03 ON 09 JUN 2002 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2002 American Chemical Society (ACS) STRUCTURE FILE UPDATES: 7 JUN 2002 HIGHEST RN 427375-75-5 DICTIONARY FILE UPDATES: 7 JUN 2002 HIGHEST RN 427375-75-5 TSCA INFORMATION NOW CURRENT THROUGH January 7, 2002 Please note that search-term pricing does apply when conducting SmartSELECT searches. Crossover limits have been increased. See HELP CROSSOVER for details. Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf => => => d his 116 (FILE 'HCAPLUS' ENTERED AT 13:52:43 ON 09 JUN 2002) SELECT HIT RN L15 1-12 FILE 'REGISTRY' ENTERED AT 13:55:03 ON 09 JUN 2002 L16 20 S E1-E20 => => d ide can 116 1-20 L16 ANSWER 1 OF 20 REGISTRY COPYRIGHT 2002 ACS RN **334865-90-6** REGISTRY Octadecanoic acid, (1S)-1-[[[[2-(1H-imidazol-4-CN yl)ethyl]amino]carbonyl]oxy]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME) STEREOSEARCH FS MF C45 H83 N3 O6 SR LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE) 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:300798

L16 ANSWER 2 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN

329008-69-7 REGISTRY L-Histidine, S-[2,3-bis[(1-oxohexadecyl)oxy]propyl]-N-(1-oxohexadecyl)-Lcysteinylglycyl-L-serylglycyl-L-serylglycyl-L-serylglycyl-L- $\verb|serylglycyl-L-serylglycyl-L-serylglycyl-L-seryl-L-histidyl-L-h$ histidyl-L-histidyl-L-histidyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C130 H209 N35 O37 S

SR CA

LCSTN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-D

PAGE 2-A

PAGE 2-B

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:204091

L16 ANSWER 3 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN **245402-82-8** REGISTRY

CN 9-Octadecenoic acid (9Z)-, 1-[(1-methyl-1H-imidazol-4-yl)methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C43 H76 N2 O4

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Double bond geometry as shown.

$$N$$
 O
 (CH_2) 7
 Z
 (CH_2) 7
 Me
 Me
 O
 (CH_2) 7
 Z
 (CH_2) 7
 Me

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:269275

L16 ANSWER 4 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN **216012-51-0** REGISTRY

CN L-Leucine, hydroxyacetyl-L-leucyl-L-.alpha.-glutamyl-L-histidyl-L-leucyl-L-leucyl-L-leucyl-, ether with .alpha.-[2-[[4-[(2R)-2,3-bis[(1-oxohexadecyl)oxy]propoxy]-1,4-dioxobutyl]amino]ethyl]-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

MF (C2 H4 O)n C78 H137 N9 O18

CI PMS

PCT Polyether

SR CA

LC STN Files: CA, CAPLUS

PAGE 1-A

PAGE 1-B

PAGE 1-C

1 REFERENCES IN FILE CA (1967 TO DATE) 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:17237

L16 ANSWER 5 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN **193764-38-4** REGISTRY

CN 9-Octadecenoic acid (9Z)-, 1-[[[hydroxy(1H-imidazol-4-ylmethoxy)phosphinyl]oxy]methyl]-2-[(1-oxohexadecyl)oxy]ethyl ester, (R)-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 9-Octadecenoic acid (Z)-, 1-[[[hydroxy(1H-imidazol-4-ylmethoxy)phosphinyl]oxy]methyl]-2-[(1-oxohexadecyl)oxy]ethyl ester, (R)-

FS STEREOSEARCH

MF C41 H75 N2 O8 P

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry. Double bond geometry as shown.

$$\begin{array}{c}
H \\
N \\
\end{array}$$
 $\begin{array}{c}
O \\
P \\
O
\end{array}$
 $\begin{array}{c}
O \\
R \\
O
\end{array}$
 $\begin{array}{c}
O \\
CH_2
\end{array}$
 $\begin{array}{c}
Me \\
CH_2
\end{array}$
 $\begin{array}{c}
CH_2
\end{array}$
 $\begin{array}{c}
T \\
O
\end{array}$
 $\begin{array}{c}
CH_2
\end{array}$
 $\begin{array}{c}
T \\
O
\end{array}$
 $\begin{array}{c}
Me \\
O
\end{array}$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:162074

L16 ANSWER 6 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN 193764-36-2 REGISTRY

CN Tetradecanoic acid, 1-[[[hydroxy(1H-imidazol-4-ylmethoxy)phosphinyl]oxy]methyl]-1,2-ethanediyl ester, (R)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C35 H65 N2 O8 P

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

$$\begin{array}{c}
H \\
N \\
N
\end{array}$$
 $\begin{array}{c}
O \\
P \\
O
\end{array}$
 $\begin{array}{c}
O \\
R \\
O
\end{array}$
 $\begin{array}{c}
O \\
CH_2)_{12}
\end{array}$
 $\begin{array}{c}
Me \\
O \\
O
\end{array}$
 $\begin{array}{c}
Me \\
O
\end{array}$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:162074

L16 ANSWER 7 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN **191990-33-7** REGISTRY

CN Hexadecanoic acid, 1-[[(1-methyl-1H-imidazol-2-yl)thio]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF . C39 H72 N2 O4 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:269275

REFERENCE 2: 127:95531

L16 ANSWER 8 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN 191990-32-6 REGISTRY

CN Tetradecanoic acid, 2-(1-methyl-1H-imidazol-4-yl)-1-[[(1-oxotetradecyl)oxy]methyl]ethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C35 H64 N2 O4.

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:269275

REFERENCE 2: 127:95531

L16 ANSWER 9 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN **191990-30-4** REGISTRY

CN Hexadecanoic acid, 1-[(1-methyl-1H-imidazol-4-yl)methyl]-1,2-ethanediyl

ester- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C39 H72 N2 O4

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:269275

REFERENCE 2: 127:95531

L16 ANSWER 10 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN **170010-53-4** REGISTRY

CN Poly(oxy-1,2-ethanediyl), .alpha.-(1H-imidazol-1-ylcarbonyl)-.omega.-[[9-hydroxy-9-oxido-4,15-dioxo-12-[(1-oxohexadecyl)oxy]-8,10,14-trioxa-5-aza-9-phosphatriacont-1-yl]oxy]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Poly(oxy-1,2-ethanediyl), .alpha.-(1H-imidazol-1-ylcarbonyl)-.omega.-[[9-hydroxy-4,15-dioxo-12-[(1-oxohexadecyl)oxy]-8,10,14-trioxa-5-aza-9-phosphatriacont-1-yl]oxy]-, P-oxide

MF (C2 H4 O)n C45 H82 N3 O11 P

CI PMS

PCT Polyether

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PAGE 1-A

$$\begin{array}{c|c}
 & O & OH \\
 & C & O & CH_2 - CH_2 - OH_2 - CH_2 - OH_2 - CH_2 - OH_2 - CH_2 - OH_2 - OH_2$$

PAGE 1-B

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:296611

L16 ANSWER 11 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN 170010-52-3 REGISTRY

CN Poly(oxy-1,2-ethanediyl), .alpha.-[9-hydroxy-9-oxido-1,4,15-trioxo-12-[(1-oxohexadecyl)oxy]-8,10,14-trioxa-5-aza-9-phosphatriacont-1-yl]-.omega.[(1H-imidazol-1-ylcarbonyl)oxy]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Poly(oxy-1,2-ethanediyl), .alpha.-[9-hydroxy-1,4,15-trioxo-12-[(1-oxohexadecyl)oxy]-8,10,14-trioxa-5-aza-9-phosphatriacont-1-yl]-.omega.-[(1H-imidazol-1-ylcarbonyl)oxy]-, P-oxide

MF (C2 H4 O)n C45 H80 N3 O12 P

CI PMS

PCT Polyether

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PAGE 1-A

PAGE 1-B

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{O-C- (CH}_2)_{14} - \text{Me} \\ \parallel \\ \text{--O-CH}_2 - \text{CH-CH}_2 - \text{O-C- (CH}_2)_{14} - \text{Me} \\ \parallel \\ \text{O} \end{array}$$

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:316511

REFERENCE 2: 123:296611

L16 ANSWER 12 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN 170010-51-2 REGISTRY

CN Poly(oxy-1,2-ethanediyl), .alpha.-(1H-imidazol-1-ylcarbonyl)-.omega.-[[7-hydroxy-7-oxido-2,13-dioxo-10-[(1-oxohexadecyl)oxy]-6,8,12-trioxa-3-aza-7-phosphaoctacos-1-yl]oxy]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Poly(oxy-1,2-ethanediyl), .alpha.-(1H-imidazol-1-ylcarbonyl)-.omega.-[[7-hydroxy-2,13-dioxo-10-[(1-oxohexadecyl)oxy]-6,8,12-trioxa-3-aza-7-phosphaoctacos-1-yl]oxy]-, P-oxide

MF (C2 H4 O)n C43 H78 N3 O11 P

CI PMS

PCT Polyether

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PAGE 1-A

$$\begin{array}{c|c}
 & O \\
 & O \\
 & C \\
 & O \\$$

PAGE 1-B

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:296611

L16 ANSWER 13 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN **170010-50-1** REGISTRY

CN Poly(oxy-1,2-ethanediyl), .alpha.-[6-hydroxy-6-oxido-1,12-dioxo-9-[(1-oxohexadecyl)oxy]-5,7,11-trioxa-2-aza-6-phosphaheptacos-1-yl]-.omega.-[(1H-imidazol-1-ylcarbonyl)oxy]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Poly(oxy-1,2-ethanediyl), .alpha.-[6-hydroxy-1,12-dioxo-9-[(1-oxohexadecyl)oxy]-5,7,11-trioxa-2-aza-6-phosphaheptacos-1-yl]-.omega.-[(1H-imidazol-1-ylcarbonyl)oxy]-, P-oxide

MF (C2 H4 O)n C42 H76 N3 O11 P

CI PMS

PCT Polyether

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PAGE 1-A

PAGE 1-B

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:296611

L16 ANSWER 14 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN **159510-52-8** REGISTRY

CN Hexadecanoic acid, 1-[22-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-3-hydroxy-3-oxido-8,11,18-trioxo-9-[4-[[1-oxo-5-(2-oxo-4,4-diphenyl-1-imidazolidinyl)pentyl]amino]butyl]-2,4-dioxa-7,10,17-triaza-3-phosphadocos-1-yl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Thieno[3,4-d]imidazole, hexadecanoic acid deriv.

CN Hexadecanoic acid, 1-[22-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-3-hydroxy-8,11,18-trioxo-9-[4-[[1-oxo-5-(2-oxo-4,4-diphenyl-1-imidazolidinyl)pentyl]amino]butyl]-2,4-dioxa-7,10,17-triaza-3-phosphadocos-1-yl]-1,2-ethanediyl ester, P-oxide

FS 3D CONCORD

MF C79 H131 N8 O14 P S

SR CA

LC STN Files: CA, CAPLUS

PAGE 1-A

PAGE 2-A

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 122:4960

L16 ANSWER 15 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN 136681-12-4 REGISTRY

CN 3,5,9-Trioxa-4-phosphapentacosan-1-aminium, 4-hydroxy-N,N,N-trimethyl-7- [[13-(2-methyl-1H-imidazol-1-yl)-1-oxotridecyl]oxy]-10-oxo-, inner salt, 4-oxide (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C41 H78 N3 O8 P

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:207992

L16 ANSWER 16 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN **136681-11-3** REGISTRY

CN 3,5,9-Trioxa-4-phosphatricosan-1-aminium, 4-hydroxy-N,N,N-trimethyl-7-[[11-(2-methyl-1H-imidazol-1-yl)-1-oxoundecyl]oxy]-11-oxo-, inner salt, 4-oxide (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C37 H70 N3 O8 P

SR CF

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 115:207992

L16 ANSWER 17 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN 124656-94-6 REGISTRY

CN 3,5,9-Trioxa-4-phosphatricosan-1-aminium, 4-hydroxy-N,N,N-trimethyl-7-[[11-(2-methyl-1H-imidazol-1-yl)-1-oxoundecyl]oxy]-10-oxo-, inner salt, 4-oxide, (R)-(9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C37 H70 N3 O8 P

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 112:50822

L16 ANSWER 18 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN **124656-93-5** REGISTRY

CN 3,5,9-Trioxa-4-phosphatricosan-1-aminium, 4-hydroxy-7-[[11-(1H-imidazol-1-yl)-1-oxoundecyl]oxy]-N,N,N-trimethyl-10-oxo-, inner salt, 4-oxide, (R)-(9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C36 H68 N3 O8 P

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE - 1: 112:50822

L16 ANSWER 19 OF 20 REGISTRY COPYRIGHT 2002 ACS

RN 109738-39-8 REGISTRY

CN Hexadecanoic acid, 1-[12-(2,5-dioxo-4,4-diphenyl-1-imidazolidinyl)-3-hydroxy-3-oxido-8-oxo-2,4-dioxa-7-aza-3-phosphadodec-1-yl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Hexadecanoic acid, 1-[12-(2,5-dioxo-4,4-diphenyl-1-imidazolidinyl)-3-hydroxy-8-oxo-2,4-dioxa-7-aza-3-phosphadodec-1-yl]-1,2-ethanediyl ester, P-oxide

FS 3D CONCORD

MF C57 H92 N3 O11 P

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PAGE 1-A

PAGE 1-B

-- (CH₂)₁₄ -- Me

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

1: 107:73841 REFERENCE

ANSWER 20 OF 20 REGISTRY COPYRIGHT 2002 ACS L16

RN 104953-05-1 REGISTRY

CN tetramethyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

 $\begin{tabular}{ll} 1H-Imidazol-1-yloxy, 2,5-dihydro-4-[7-hydroxy-2,13-dioxo-10-[(1-oxohexadecyl)oxy]-8,12-dioxa-4-aza-7-phosphaoctacos-1-yl]-2,2,5,5-dioxa-4-aza-7-phosphaoctacos-1-yl]-2,2,5-dioxa-4-aza-7-phosphaoctacos-1-yl]-2,2,5-dioxa-4-aza-1-yl]-2,2,5-dioxa-1-yl]-2,2,3-dioxa-1-yl]-2,2,3-dioxa-1-yl]-2,2,3-dioxa-1-yl]-2,2,3-dioxa-1-yl]-2,2,3-dioxa-1-yl]-2$ CN tetramethyl-, P-oxide

C47 H89 N3 O9 P MF

SR CA

LC STN Files: CA, CAPLUS

PAGE 1-A -(CH2)14 OH Me Me 0 Me Ме O

PAGE 1-B

- (CH₂)₁₄-Me

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 105:186645

=> fil hcapls
'HCAPLS' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'HCAPLUS'

=> fil hcaplus FILE 'HCAPLUS' ENTERED AT 13:59:25 ON 09 JUN 2002 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 9 Jun 2002 VOL 136 ISS 24 FILE LAST UPDATED: 7 Jun 2002 (20020607/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

```
=> d stat que 119 nos
L1
          17299 SEA FILE=REGISTRY SSS FUL L1
L2
L12
             57 SEA FILE=REGISTRY SUB=L2 SSS FUL L12
L13
             45 SEA FILE=HCAPLUS ABB=ON PLU=ON L13
L14
                                                L14 AND LIPOSOME
L15
             12 SEA FILE=HCAPLUS ABB=ON
                                        PLU=ON
                                                L14 NOT L15
            33 SEA FILE=HCAPLUS ABB=ON
L18
                                        PLU=ON
             13 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND (?MEDICI? OR ?DRUG?
L19
                OR ?THERAP? OR ?PHARMA?)
```

=> d ibib abs hitrn 119 1-13

L19 ANSWER 1 OF 13 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:935597 HCAPLUS

DOCUMENT NUMBER: 136:54028

TITLE: Preparation of vitronectin receptor antagonist

pharmaceuticals

INVENTOR(S): Rajopadhye, Milind; Barrett, John A.; Carpenter, Alan

P., Jr.; Cheesman, Edward H.; Harris, Thomas D.

PATENT ASSIGNEE(S): Dupont Pharmaceuticals Company, USA

SOURCE: PCT Int. Appl., 449 pp.

CODEN: PIXXD2

OCUMENT TUDE

DOCUMENT TYPE: Patent LANGUAGE: English

APPLICATION NO.

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.

KIND

DATE

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                                               WO 2001-US19794 20010621
     WO 2001098294
                       Α2
                               20011227
              AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
              SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                            US 2000-213212P P 20000621
PRIORITY APPLN. INFO .: .
                           MARPAT 136:54028
OTHER SOURCE(S):
     Compds. (Q) d-Ln-(Ch)d' (Q is a residue having an indazole-type moiety , d
ΑŖ
     = 1-10, d' = 1-100, Ln is a linking group, Ch is a metal-bonding unit)
     were prepd. for use in the diagnosis and treatment of cancer. The present
     invention provides novel compds. useful for the treatment of rheumatoid
     sulfophenyl)vinyl]amino](3-pyridyl)]carbonylamino]propoxy]ethoxy]pr
     opyl]amino]sulfonyl]phenyl]phenyl]sulfonyl]amino]-3-[[1-[3-(indazole-2-
     ylamino)propyl](1H-indazol-5-yl)]carbonylamino]propanoic acid was prepd.
     (claimed compd.). Syntheses of radiopharmaceticals, e.g.,
     99mTc(VnA)(tricine)(phosphine), where VnA represents the vitronectin
     receptor antagonist, are also described.
IT
     277329-15-4
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
         (prepn. of vitronectin receptor antagonist pharmaceuticals)
L19 ANSWER 2 OF 13 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
                           2001:206294 HCAPLUS
DOCUMENT NUMBER:
                           135:271464
TITLE:
                           Adjuvant effects of various lipopeptides and
                           interferon-.gamma. on the humoral immune response of
                           chickens
AUTHOR(S):
                           Erhard, M. H.; Schmidt, P.; Zinsmeister, P.; Hofmann,
                           A.; Munster, U.; Kaspers, B.; Wiesmuller, K. -H.;
                           Bessler, W. G.; Stangassinger, M.
                           Institut fur Physiologie, Physiologische Chemie und
CORPORATE SOURCE:
                           Tierernahrung, Tierarztliche Fakultat, Universitat
                           Munchen, Munchen, 80539, Germany
Poultry Science (2000), 79(9), 1264-1270
SOURCE:
                           CODEN: POSCAL; ISSN: 0032-5791
PUBLISHER:
                           Poultry Science Association, Inc.
DOCUMENT TYPE:
                           Journal
LANGUAGE:
                           English
     The adjuvant effects of various lipopeptides and recombinant chicken
     interferon .gamma. (IFN-.gamma.) on the humoral immune response of laying
     hens was investigated in 4 immunization studies. The authors used the
     lipopeptide Pam3Cys-Ser-(Lys)4 (PCSL), the conjugate P-Th1 consisting of
     the lipopeptide P3CS and the T-helper epitope Th1 (FISEAIIHVLHSRHPG), and
     the conjugate P-Th2 of the lipopeptide P3CSS and the T-helper epitope Th2,
     which corresponds to the peptide EWEFVNTPPLV, as adjuvants. Human serum
     albumin (HSA), recombinant bovine somatotropin (RBST), and human IgG
     served as antigens in the different expts. All tested adjuvants enhanced
     the humoral immune response with various intensities. Chickens showed
```

high antibody titers after the immunization with HSA even without adjuvant, but the adjuvant effects of PCSL and the combination of PCSL and recombinant chicken interferon-.gamma. (IFN-.gamma.) were much more pronounced using the antigens RBST and IgG. Esp. after the third immunization, higher titers of antibodies were induced by the coadministration of P-Th1 and, to a greater extent, by the combination of PCSL and P-Th1 compared with the use of PCSL. Also, chickens that had received PCSL and P-Th2 showed the highest immune response, even after the second booster. The av. concns. of chicken IgY were higher in 5-mo-old chickens (9.4 mg/mL serum and 10.1 mg/mL egg yolk) compared with 9-mo-old chickens (5.9 mg/mL serum and 5.1 mg/mL egg yolk). The specific serum antibody response was higher in the older chickens than in the younger chickens. Because chicken antibodies are likely to be used increasingly for diagnostics and therapy in the future, lipopeptides and recombinant chicken IFN-.gamma. may find many applications as adjuvants, thus contributing to the welfare of exptl. animals.

IT 202123-06-6

RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)

(adjuvant effects of various lipopeptides and interferon-.gamma. on humoral immune response of chickens)

REFERENCE COUNT:

33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 3 OF 13 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:95555 HCAPLUS

DOCUMENT NUMBER:

135:13817

TITLE:

Enhancement of gene delivery by an analogue of .alpha.-MSH in a receptor-independent fashion

AUTHOR(S):
CORPORATE SOURCE:

Chluba, J.; Lima de Souza, D.; Frisch, B.; Schuber, F. Laboratoire de Chimie Bioorganique, UMR 7514 CNRS-ULP,

Faculte de Pharmacie, Illkirch, 67400, Fr.

SOURCE:

Biochimica et Biophysica Acta (2001), 1510(1-2),

198-208

CODEN: BBACAQ; ISSN: 0006-3002

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

In order to transfect melanoma specifically by receptor-mediated endocytosis we prepd. dioctadecyl aminoglycylspermine (lipospermine)-DNA complexes with [Nle4, D-Phe7]-.alpha.-MSH(4-10), a pseudo-peptide analog of .alpha.-MSH (.alpha.-MSH) linked to a thiol-reactive phospholipid. With these complexes we obtained an up to 70-fold increase of transfection with B16-F1 melanoma cells. However when B16-G4F, an .alpha.-MSH receptor neg. melanoma cell line was transfected, an up to 700-fold increased transfection efficiency was obsd. The peptide hormone analog was equally efficient when it was only mixed with lipospermine-DNA complexes without covalent coupling. In addn. to melanoma cells we also obtained up to 30-fold increased transfection with BN cells (embryonic liver cells). Our data show that an .alpha.-MSH analog increased transfection independently of the MSH receptor expression but reaches efficiencies approaching those obtained with peptides derived from viral fusion proteins. The absence of targeting of constructs contg. [Nle4,D-Phe7]-.alpha.-MSH(4-10) can probably be attributed due to the relatively modest no. of MSH receptors at the surface of melanoma. We suggest, however, that the peptide hormone analog used in this study has membrane-active properties and could be of interest as helper agent to enhance non-viral gene delivery presumably by endosomal-destabilizing properties.

IT 342643-65-6DP, lipospermine-DNA complex

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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (enhancement of gene delivery by analog of .alpha.-MSH in
        receptor-independent fashion)
REFERENCE COUNT:
                         49
                               THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L19 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
                         2000:420991 HCAPLUS
DOCUMENT NUMBER:
                         133:59098
TITLE:
                         Preparation of vitronectin receptor antagonist
                         pharmaceuticals
INVENTOR(S):
                         Rajopadhye, Milind; Harris, Thomas David; Cheesman,
                         Edward H.
PATENT ASSIGNEE(S):
                         Du Pont Pharmaceuticals Company, USA
SOURCE:
                         PCT Int. Appl., 362 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                     KIND
                            DATE
                                           APPLICATION NO.
                      ____
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                                           -----
                                                            _____
     WO 2000035488
                      A2
                            20000622
                                           WO 1999-US30312 19991217
                    A3
     WO 2000035488
                            20001109
            AL, AU, BR, CA, CN, CZ, EE, HU, IL, IN, JP, KR, LT, LV, MK, MX, NO, NZ, PL, RO, SG, SI, SK, TR, UA, VN, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE
     US 6322770
                       В1
                            20011127
                                           US 1999-281207
                                                            19990330
     US 2002015680
                       Α1
                            20020207
                                           US 1999-281209
                                                            19990330
     EP 1140203
                      Α2
                            20011010
                                           EP 1999-967442
                                                            19991217
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
PRIORITY APPLN. INFO.:
                                        US 1998-112829P P 19981218
                                                        P 19980331
                                        US 1998-80150P
                                        US 1998-112715P P 19981218
                                        US 1998-112732P
                                                        Ρ
                                                            19981218
                                        US 1998-112831P
                                                        P 19981218
                                        WO 1999-US30312 W 19991217
OTHER SOURCE(S):
                         MARPAT 133:59098
     Compds. (Q) d-Ln-Ch (Q is a residue having an indazole-type moiety , d =
     1-10, Ln is a linking group, Ch is a metal-bonding unit) were prepd. for
     use in the diagnosis and treatment of cancer, methods of imaging tumors in
     a patient, and methods of treating cancer in a patient. The present
     invention also provides novel compds. useful for monitoring
     therapeutic angiogenesis treatment and destruction of new
     sulfophenyl)vinyl]amino](3-pyridyl)]carbonylamino]propoxy]ethoxy]pr
     opyl]amino]sulfonyl]phenyl]phenyl]sulfonyl]amino]-3-[[1-[3-(indazole-2-
     ylamino)propyl](1H-indazol-5-yl)]carbonylamino]propanoic acid was prepd.
     (claimed compd.). Syntheses of radiopharmaceticals, e.g.,
     99mTc(VnA)(tricine)(phosphine), where VnA represents the vitronectin
     receptor antagonist, are also described.
IΤ
     277329-15-4
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
```

(prepn. of vitronectin receptor antagonist pharmaceuticals)

L19 ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2002 ACS 2000:235037 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 133:29419

TITLE: Generation of antibodies directed against the

low-immunogenic peptide-toxins microcystin-LR/RR and

AUTHOR(S): Baier, W.; Loleit, M.; Fischer, B.; Jung, G.; Neumann,

U.; Weiss, M.; Weckesser, J.; Hoffmann, P.; Bessler,

W. G.; Mittenbuhler, K.

Institut fur Immunobiologie der Universitat, Freiburg, CORPORATE SOURCE:

D-79104, Germany

SOURCE: International Journal of Immunopharmacology (2000),

22(5), 339-353 CODEN: IJIMDS; ISSN: 0192-0561

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

The prepn. of antibodies against the liver toxin microcystin, as described here, is of major importance for its detection and purifn. in food and water, and for a therapeutic approach to neutralize the toxin by passive immunization. Microcystin-LR (MLR) and microcystin-RR (MRR) were purified from cyanobacterial cell materials by extn., Sephadex LH-20-, ODS silica gel-, ionic exchange and RP-HPLC-chromatog. To reduce the toxicity for parenteral administration, microcystins were coupled by the carbodiimide method to poly-L-lysine (PLL50,000). Mice and rabbits were immunized with the conjugates in the presence of two lipopeptide immunoadjuvants (P3CSK4 and P3CS-Th). High MLR-specific antibody levels were obsd. after parenteral coadministration of antigen and lipopeptides, whereas no anti-MLR antibodies were obtained with free microcystin or the microcystin-PLL50,000-conjugate in the absence of lipopeptide. In oral immunization, coadministration of antigen and adjuvants resulted in an accelerated development of anti MLR-specific antibodies and high antibody levels. Using the antisera, the authors could detect different microcystins and nodularin down to a concn. range of 10-50 ng/mL by a competitive inhibition ELISA; detection of microcystins in crude cell prepns. was also possible. Furthermore, microcystins from different sources could be detected and discriminated from cyclic cyanopeptolines.

TT 202123-06-6

> RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(as adjuvant in prepn. of antibodies to microcystins)

THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 44 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 6 OF 13 HCAPLUS COPYRIGHT 2002 ACS

1998:4339 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 128:123393

Drug specific antibodies: T-cell TITLE:

epitope-lipopeptide conjugates are potent adjuvants

for small antigens in vivo and in vitro

Mittenbuhler, Klaus; Loleit, Manuel; Baier, Wiltrud; AUTHOR(S):

Fischer, Bianca; Sedelmeier, Eva; Jung, Gonther; Winkelmann, Gunther; Jacobi, Clemens; Weckesser,

Jurgen; Erhard, Michael H.; Hofmann, Andrea; Bessler,

Wolfgang; Hoffmann, Petra

Institut for Immunbiologie der Universitat, Freiburg, CORPORATE SOURCE:

D-79104, Germany

International Journal of Immunopharmacology (1997), SOURCE:

19(5), 277-287

CODEN: IJIMDS; ISSN: 0192-0561

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

To generate conventional or monoclonal antibodies for the serol. detection of drugs, antibiotics, toxins and other low mol. mass substances, a suitable and effective adjuvant is needed. Lipopeptides derived from a major component of the bacterial cell wall constitute potent nontoxic and nonpyrogenic immunoadjuvants when mixed with conventional antigens. Here we demonstrate that the synthetic lipopeptide N-palmitoyl-S-[2,3-bis(palmitoyloxy)-(2R,S)-propyl]-(R)-cysteinyl-serine (P3CS) coupled to a Th cell epitope (P3CS-Th) can efficiently enhance the specific immune response against low mol. wt. compds. in different species. In the presence of the synthetic lipopeptide P3CS-Th, the peptides which are per se non-immunogenic stimulated a specific humoral immune response in mice after i.p. application. Mixts. contg. adjuvants without the Th sequence showed no significant antibody induction. A marked enhancement of the humoral immune response was obtained with the low mol. mass antigens Iturin AL, Herbicolin A and Microcystin (MLR) coupled to poly-L-lysin (MLR-PLL), in rabbits and in chickens. Lipopeptide-Th cell epitope conjugates also constituted adjuvants for the in vitro immunization of either human mononuclear cells or mouse B-cells with MLR-PLL; after fusion of the immunized cultures with the heteromyeloma cell lines CB-F7 or the mouse myeloma cell line SP 2/0, resp., we obsd. a significantly increased yield of antibody-secreting hybridomas.

IT 202123-06-6

RL: ARU (Analytical role, unclassified); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)

(lipopeptide conjugates with T-cell epitope as adjuvants for small antigens used to obtain antibodies for serol. detection of drugs and toxins)

L19 ANSWER 7 OF 13 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1997:650334 HCAPLUS

DOCUMENT NUMBER: 127:262682

TITLE: Preparation of lymph-absorbable imidazole derivatives

as anti-AIDS agents

INVENTOR(S): Aono, Katsutoshi; Ichihashi, Teruhisa; Sugawara,

Tamio; Hirano, Koichiro

PATENT ASSIGNEE(S): Shionogi & Co., Ltd., Japan; Aono, Katsutoshi;

Ichihashi, Teruhisa; Sugawara, Tamio; Hirano, Koichiro

SOURCE: PCT Int. Appl., 122 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	ENT	NO.		KI	ND I	DATE			A	PPLI	CATI	N NC	o. :	DATE			
									_								
WO	9735	843		A	1	1997	1002	-	W	0 19	97 - J	P813		1997	0314		
	W:	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
		DK,	EE,	ES,	FI,	GB,	GE,	GH,	HU,	IL,	IS,	JP,	KE,	KG,	KR,	ΚZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	ΝZ,	PL,	PT,
		RO,	RU,	SD,	SE,	SG,	SI,	SK,	ТJ,	TM,	TR,	TT,	UA,	UG,	US,	UZ,	VN,
		YU,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM						

RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG AU 9719408 A1 19971017 AU 1997-19408 19970314 EP 893442 19990127 EP 1997-907316 19970314 Α1 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, US 6054591 Α 20000425 US 1998-101960 19980721 PRIORITY APPLN. INFO.: JP 1996-103299 19960328 WO 1997-JP813 19970314 OTHER SOURCE(S): MARPAT 127:262682

$$Z-R$$

$$Q=$$

$$N$$

$$R^{2}$$

$$N$$

$$A-OR^{3}$$

GΙ

AΒ Compds. represented by general formula (I; Z = S, SO, SO2, or CH2; R = agroup represented by general formulas Q wherein R1 = optionally substituted lower alkyl; R2 = optionally substituted lower alkyl, lower alkenyl, cycloalkylalkyl, lower aroylalkyl, aralkyl, heteroarylalkyl or carbamoyloxyalkyl; A = lower alkylene which may have an intervening heteroatom; R3 = C11-20 alkyl, acyloxyalkyl, CR4R5(OR6), C(:CR7R8)R9, COR10, CO2R13, CONHCOR14, CONHCO2R15, CONHCH2NR16R17; R4, R5 = H, optionally substituted alkyl, aryl, or aralkyl, CR4R5 = cyclic alkyl or o-biphenylenemethane; R6 = optionally substituted alkyl; R7 - R9 = H or optionally substituted alkyl or CR7R8 = optionally substituted cyclic alkenyl; R10 = C6-20 alkyl, cycloalkyl, optionally substituted aralkyl, etc.; R13 = C6-20 alkyl, optionally substituted aralkyl or heteroarylalkyl; R14 = H, alkyl, alkenyl, cycloalkylalkyl, optionally substituted aryl, aralkyl, or heteroarylalkyl; R15 = alkyl, alkenyl, cycloalkylalkyl, optionally substituted aryl, aralkyl, or heteroarylalkyl; R16, R17 = alkyl or aralkyl or NR16R17 = heterocyclyl) salts and hydrates thereof are prepd. Anti-AIDS agents contg. I or salts or hydrates thereof are claimed. These compds. possess potent anti-HIV activity, can be administered orally and absorbed efficiently through lymph vessels in the intestinal tract, and migrate to lymph nodes in high concns. After they are absorbed in lymph, they themselves or after being hydrolyzed in vivo into active forms exhibit anti-HIV activity. Thus, a soln. of

2-(hydroxymethyl)imidazole deriv. (II; R18 = H)in THF was stirred with octanoyl isocyanate under ice-cooling for 1 h and then at for 1 h to give II (R18 = CONHCOC7H15). The latter compd. and II (R = CONHAc) in vitro showed EC50 of 0.008-0.016 and 0.001, resp., for inhibiting the cell damage of HIV (HTLV-IIIB)-infected human T cells (MOLT-4 clone 8).

ΙT 196405-91-1P

> RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of lymph-absorbable imidazole derivs. as anti-HIV and anti-AIDS agents)

L19 ANSWER 8 OF 13 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1997:375282 HCAPLUS

DOCUMENT NUMBER:

127:95531

TITLE:

Preparation of glycolipid amphipathic, micellar

delivery systems for DNA and RNA biologically active

polyions

INVENTOR(S):

Wolff, Jon A.; Budker, Vladimir; Gurevich, Vladimir

PATENT ASSIGNEE(S):

Wolff, Jon A., USA; Budker, Vladimir; Gurevich,

Vladimir

SOURCE:

U.S., 17 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5635487	A	19970603	US 1994-368150	19941229

GΙ

- AΒ The present invention provides a compn. comprising a population of micelles wherein each micelle comprises at least one amphipathic compd. layer that surrounds a non-aq. core that contains a polyion. Also provided are a method of prepg. such a compn. and the uses of such compns. for delivering biol. active polyions to cells. Thus lipid I was prepd. as drug delivery system and can be used to express a gene product in cell.
- IT191990-50-8P

RL: BPR (Biological process); BSU (Biological study, unclassified); SPN

(Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(prepn. of glycolipid amphipathic micellar delivery systems for DNA and RNA biol. active polyions)

IT 191990-30-4P 191990-32-6P 191990-33-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of glycolipid amphipathic micellar delivery systems for DNA and RNA biol. active polyions)

L19 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1995:493096 HCAPLUS

DOCUMENT NUMBER: 122:306386

TITLE: Anticonvulsant activity of phenytoin-lipid conjugates,

a new class of phenytoin prodrugs

AUTHOR(S): Scriba, Gerhard K. E.; Lambert, Didier M.; Poupaert,

Jacques H.

CORPORATE SOURCE: Sch. Pharmacy, Univ. Muenster, Muenster, 48149,

Germany

SOURCE: J. Pharm. Pharmacol. (1995), 47(3), 197-203

CODEN: JPPMAB; ISSN: 0022-3573

DOCUMENT TYPE: Journal LANGUAGE: English

The anticonvulsant activity of phenytoin-lipid conjugates obtained by covalent binding of 3-hydroxymethylphenytoin to dimyristoylglycerides via a succinidyl linkage to 2-(1,3-dimyristoylglyceryl)butyric acid and to 3-myristoyl-2-myristoylmethylpropionic acid was evaluated in the maximal electroshock (MES) test and the seizure threshold test with s.c. pentetrazol. The phenytoin-lipid conjugates were less active than the parent drug in the MES test after i.p. administration as suspensions, but exhibited comparable activity when injected as a soln. in dimethylsulfoxide. They also protected mice from MES-induced seizures following oral administration of aq. suspensions of the compds. or when incorporated into emulsions. The anticonvulsant activity could be correlated to in-vitro pancreatic lipase-mediated hydrolysis. The bis-deacyl derivs. were at least as active but in some cases also more toxic than phenytoin. Oral administration of two of the lipid conjugates resulted in a faster onset of the anticonvulsant activity compared with the administration of an equimolar dose of phenytoin itself. All compds. were inactive in the s.c. pentetrazol test. It is concluded that the lipids act as **prodrugs** of phenytoin, which is generated by lipolysis upon oral administration.

IT 150994-98-2

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(anticonvulsant activity of phenytoin-lipid conjugates a new class of phenytoin **prodrugs**)

L19 ANSWER 10 OF 13 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1993:656382 HCAPLUS

DOCUMENT NUMBER:

119:256382

TITLE:

Phenytoin-lipid conjugates: Chemical, plasma

esterase-mediated, and pancreatic lipase-mediated

hydrolysis in vitro Scriba, Gerhard K. E.

AUTHOR(S): CORPORATE SOURCE:

Dep. Pharm. Chem., Univ. Muenster, Muenster, 48149,

Germany

SOURCE:

Pharm. Res. (1993), 10(8), 1181-6

CODEN: PHREEB; ISSN: 0724-8741

DOCUMENT TYPE: Journal LANGUAGE: English Phenytoin-lipid conjugates obtained by covalent binding of AΒ

hydroxymethylphenytoin to diacyl glycerides and to 3-acyloxy-2acyloxymethylpropionic acids formed dispersions with a particle size of 10-200 .mu.M when briefly sonicated in a sodium taurodeoxycholate-contg. ethanol-water mixt. In contrast to the corresponding bis-deacyl derivs., the lipids were not significantly hydrolyzed in aq. buffers and in plasma. Incubation with pancreatic lipase yielded primarily the bis-deacyl compds., which are comparable to monoglycerides, and subsequently liberated phenytoin. The glyceride-derived prodrugs were better substrates for the enzyme than the 3-acyloxy-2-acyloxymethylpropionic acid derivs. Thus, the phenytoin lipid conjugates are hydrolyzed by pancreatic

lipase in a similar manner as natural triglycerides.

ΙΤ 151227-88-2

RL: BIOL (Biological study)

(chem. and blood plasma esterase- and pancreatic lipase-mediated hydrolysis of, as prodrug)

L19 ANSWER 11 OF 13 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1993:617285 HCAPLUS

DOCUMENT NUMBER: 119:217285

TITLE: Phenytoin-lipid conjugates as potential

prodrugs of phenytoin AUTHOR(S): Scriba, Gerhard K. E.

CORPORATE SOURCE: Dep. Pharm. Chem., Univ. Muenster, Muenster, D-48149,

Germany

Arch. Pharm. (Weinheim, Ger.) (1993), 326(8), 477-81 SOURCE:

CODEN: ARPMAS; ISSN: 0365-6233

DOCUMENT TYPE: Journal LANGUAGE: English

AΒ Phenytoin-1-triglycerides and phenytoin-2-triglycerides were synthesized as potential prodrugs of phenytoin by covalent binding of

3-hydroxymethylphenyltoin by succinic acid to the positions 1 and 2, resp., of diglycerides. The corresponding 1- and 2-monoglycerides were

also prepd. In addn., replacement of glycerol by 3-hydroxy-2-hydroxymethylpropionic acid furnished lipids that allowed direct coupling of 3-hydroxymethylphenytoin. The lipid conjugates proved to be substrates for pancreatic lipase in vitro.

IT 150994-98-2

RL: RCT (Reactant)

(reaction of, with benzaldehyde)

L19 ANSWER 12 OF 13 HCAPLUS COPYRIGHT 2002 ACS

1991:38799 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 114:38799

Immobilized artificial membrane-bearing TITLE:

> chromatographic supports for separation/purification of biomolecules and for evaluation of membrane-binding

characteristics of biomolecues

INVENTOR(S): Pidgeon, Charles

Purdue Research Foundation, USA PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 79 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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KIND DATE
                                              APPLICATION NO.
                                                                 DATE
     PATENT NO.
                              _____
                                              ______
                                            WO 1989-US682
                       A1
                              19890908
                                                                19890221
     WO 8908130
         W: AU, BB, BG, BR, DK, FI, HU, JP, KP, KR, LK, MC, MG, MW, NO, RO,
              SD, SU, US
         RW: AT, BE, BJ, CF, CG, CH, CM, DE, FR, GA, GB, IT, LU, ML, MR, NL, SE, SN, TD, TG
     US 4931498
                        Α
                              19900605
                                              US 1988-160196
                                                                 19880225
     US 4927879
                        Α
                              19900522
                                              US 1988-261502
                                                                 19881024
     AU 8931946
                        A1
                              19890922
                                              AU 1989-31946
                                                                 19890221
                                             EP 1989-902914
                        A1
                              19910123
                                                                 19890221
     EP 408585
         R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE
                     T2
                                              JP 1989-502706
                              19910627
                                                                 19890221
     JP 03502836
     CA 1337801
                        Α1
                              19951226
                                              CA 1989-591880
                                                                 19890223
PRIORITY APPLN. INFO.:
                                           US 1988-160196
                                                                 19880225
                                           US 1988-261502
                                                                 19881024
                                           WO 1989-US682
                                                                 19890221
OTHER SOURCE(S): MARPAT 114:38799
     The title supports are prepd. by immobilization of membrane constituents
     (amphiphilic substances, e.g., lecithins, lysolecithins, cephalins,
     sphingomyelins, cardiolipins, glycolipids, gangliosides, or cerebrosides)
     on the surface of a particulate support structure, i.e., silica, alumina,
     titania, or resin (5-100 .mu.m). The chromatog. support materials are
     useful for sepn./purifn. of biomols. (particularly those expressed by
     genetically transformed cells as novel hybrid proteins having covalently
     bound membrane-binding peptides) and for evaluating membrane assocn. characteristics of chem. compds. Novel phospholipid carboxylates are useful intermediates for prepg. the chromatog. supports having surfaces
     formed as covalently bound artificial membranes which simulate natural cellular membranes. Thus, a support (Nucleosil-lecithin) was prepd.
     starting from 1,12-dodecanedicarboxylic acid anhydride via formation of
     1-myristoyl-2-(13-carboxytridecyloyl)-sn-3-glycerophoshocholine and
     1-myristoyl-2-(13-carbonylimidazolidetridecyloyl-sn-3-
     glycerophosphocholine. The latter was reacted with Nucleosil-300(7 NH2)
     (silica derivatized with proplyamine groups) to form Nucleosil-lecithin.
     Nucleosil-lecithin was packed into a HPLC column (4 .times. 100 mm) for
     sepn. of D-phenylalanine and L-tryptophan. The materials may also be used
     in drug screening and other applications.
ΙT
     131300-85-1P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
         (prepn. and reaction of, with Nucleosil-300)
L19 ANSWER 13 OF 13 HCAPLUS COPYRIGHT 2002 ACS
                           1987:18987 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                           106:18987
TITLE:
                           Phosphatidyl compounds and their use
                           Baschang, Gerhard; Fechtig, Bruno; Hartmann, Albert;
INVENTOR(S):
                           Lukas, Bohumir; Wacker, Oskar
                           Ciba-Geigy A.-G., Switz.
Eur. Pat. Appl., 79 pp.
PATENT ASSIGNEE(S):
SOURCE:
                           CODEN: EPXXDW
DOCUMENT TYPE:
                           Patent
LANGUAGE:
                           German
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                              APPLICATION NO. DATE
     PATENT NO.
                       KIND DATE
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EP 1985-810332 19850719

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EP 169812

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19890823
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PRIORITY APPLN. INFO.:
                                         CH 1984-3598
                                                             19840725
                                         EP 1985-810332
                                                             19850719
                                         US 1985-757823
                                                             19850722
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AB R1TYOP(O)(OH)OCHWZ [I; R1 alkanoyl, benzoyl, acyl, amino acid acyl; T = (substituted) NH, O; Y = (carboxy deriv.-substituted) CH2CH2; W = H and Z = CH(OH)CH2OH, CH2CH2OH, CH2OH (.gtoreq.1 OH esterified or etherified with C8-30 aliph. acid or alc.); W = Z = esterified or etherified CH2OH], used in treating viral infections, are prepd. by acylation of HTYOP(O)(OH)OCHWZ with R1OH; or by oxidn. of R1TYOP(OR2)OCHWZ (R2 = H, leaving group); or by hydrolysis of R1TYOP(O)(R3)OCHWZ (R3 = halo); or by treating XYOP(O)(OH)OCHWZ (X = labile leaving group) with R1TH; or by phosphorylation of R1TY[OP(O)(OH)]nOH (n = 0, 1) with H[OP(O)OH]mOCHWZ (m = 0, 1; m + n = 1); or by esterification or etherification of I (W, Z = free hydroxyalkyl group as above). One thousand tablets contg. 0.5 wt.% I were prepd. from I [R1 = MeCH(NH2)CO, T = NH, Y = CH2CH2, W = H, Z = CH(OR4)CH2OR4, R4 = palmitoyl] 0.5, powd. lactose 43.0, corn starch 52.0, Pharmacoat-603 3.0, Aerosil 1.0 and Mg stearate 0.5 g. In tests with mice injected with LD80-90 of an influenza virus, four I at 0.01 mg/kg orally gave 50-100% survival after 23 days, vs. 20-30% in the control group.

IT 104562-05-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and hydrolysis of)

IT 104561-81-1P 104561-82-2P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. of, as antiviral agent)

=> select hit rn 119 1-13 E21 THROUGH E34 ASSIGNED

=> fil req

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STRUCTURE FILE UPDATES: 7 JUN 2002 HIGHEST RN 427375-75-5 DICTIONARY FILE UPDATES: 7 JUN 2002 HIGHEST RN 427375-75-5

TSCA INFORMATION NOW CURRENT THROUGH January 7, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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1 104561-82-2/BI (104561-82-2/RN) 1 104562-05-2/BI

(104562-05-2/RN) 1 131300-85-1/BI

(131300-85-1/RN) 1 151227-88-2/BI (151227-88-2/RN)

1 191990-30-4/BI (191990-30-4/RN) 1 191990-32-6/BI

(191990-32-6/RN) 1 191990-33-7/BI

(191990-33-7/RN)

1 191990-50-8/BI (191990-50-8/RN)

1 196405-91-1/BI (196405-91-1/RN)

1 342643-65-6/BI (342643-65-6/RN)

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L20

L20 ANSWER 1 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN **342643-65-6** REGISTRY

CN Poly(oxy-1,2-ethanediyl), .alpha.-[7-hydroxy-7-oxido-2,13-dioxo-10-[(1-oxohexadecyl)oxy]-6,8,12-trioxa-3-aza-7-phosphaoctacos-1-yl]-.omega.-hydroxy-, ether with N-[3-[[1-(2-hydroxyethyl)-2,5-dioxo-3-pyrrolidinyl]thio]-1-oxopropyl]glycyl-L-norleucyl-L-.alpha.-glutamyl-L-histidyl-D-phenylalanyl-L-arginyl-L-tryptophylglycinamide (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE

MF (C2 H4 O)n C95 H150 N17 O23 P S

CI PMS

PCT Polyether

SR CA

LC STN Files: CA, CAPLUS

PAGE 1-A

PAGE 2-A

PAGE 2-B

PAGE 2-C

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:13817

L20 ANSWER 2 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN **277329-15-4** REGISTRY

CN 26,28,32-Trioxa-3,10,23-triaza-27-phosphaoctatetracontanoic acid, 27-hydroxy-2-[[[[1-[3-(1H-imidazol-2-ylamino)propyl]-1H-indazol-5-yl]carbonyl]amino]methyl]-4,11,22,33-tetraoxo-30-[(1-oxohexadecyl)oxy]-, 27-oxide, (2S,30R)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C72 H124 N9 O14 P

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

PAGE 1-A

Me (CH₂) 14 0
$$\stackrel{\circ}{\text{HO}}$$
 0 $\stackrel{\circ}{\text{H}}$ (CH₂) 10 $\stackrel{\circ}{\text{H}}$

PAGE 1-B

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:54028

REFERENCE 2: 133:59098

L20 ANSWER 3 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN 202123-06-6 REGISTRY

CN Glycine, S-[2,3-bis[(1-oxohexadecyl)oxy]propyl]-N-(1-oxohexadecyl)-L-cysteinyl-L-seryl-L-phenylalanyl-L-isoleucyl-L-seryl-L-alpha.-glutamyl-L-alanyl-L-isoleucyl-L-histidyl-L-valyl-L-leucyl-L-histidyl-L-seryl-L-arginyl-L-histidyl-L-prolyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

MF C140 H235 N27 O29 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

PAGE 1-B

PAGE 1-C

3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:271464

REFERENCE 2: 133:29419

REFERENCE 3: 128:123393

L20 ANSWER 4 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN 196405-91-1 REGISTRY

CN Decanedioic acid, 2-[[5-[(3,5-dimethylphenyl)thio]-2-methyl-4-(1-methylethyl)-1H-imidazol-1-yl]methoxy]ethyl 2-[(1-oxohexadecyl)oxy]-1-[[(1-oxohexadecyl)oxy]methyl]ethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C63 H108 N2 O9 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PAGE 1-A

PAGE 1-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:262682

L20 ANSWER 5 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN **191990-50-8** REGISTRY

CN 9-Octadecenoic acid, 2-(1-methyl-1H-imidazol-5-yl)-1-[[(1-oxo-9-octadecenyl)oxy]methyl]ethyl ester (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C43 H76 N2 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:95531

L20 ANSWER 6 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN **191990-33-7** REGISTRY

CN Hexadecanoic acid, 1-[[(1-methyl-1H-imidazol-2-yl)thio]methyl]-1,2-

ethanediyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C39 H72 N2 O4 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:269275

REFERENCE 2: 127:95531

L20 ANSWER 7 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN 191990-32-6 REGISTRY

CN Tetradecanoic acid, 2-(1-methyl-1H-imidazol-4-yl)-1-[[(1-oxotetradecyl)oxy]methyl]ethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C35 H64 N2 O4

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:269275

REFERENCE 2: 127:95531

L20 ANSWER 8 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN 191990-30-4 REGISTRY

CN Hexadecanoic acid, 1-[(1-methyl-1H-imidazol-4-yl)methyl]-1,2-ethanediyl ester- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C39 H72 N2 O4

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:269275

REFERENCE 2: 127:95531

L20 ANSWER 9 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN **151227-88-2** REGISTRY

CN Butanedioic acid, 2,3-bis[(1-oxooctacosyl)oxy]propyl (2,5-dioxo-4,4-diphenyl-1-imidazolidinyl)methyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C79 H132 N2 O10

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:256382

L20 ANSWER 10 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN **150994-98-2** REGISTRY

CN Butanedioic acid, 2,3-bis[(1-oxotetradecyl)oxy]propyl (2,5-dioxo-4,4-diphenyl-1-imidazolidinyl)methyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C51 H76 N2 O10

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 122:306386

REFERENCE 2: 119:217285

L20 ANSWER 11 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN **131300-85-1** REGISTRY

CN 3,5,9-Trioxa-4-phosphatricosan-1-aminium, 4-hydroxy-7-[[14-(1H-imidazol-1-yl)-1,14-dioxotetradecyl]oxy]-N,N,N-trimethyl-10-oxo-, inner salt, 4-oxide (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C39 H72 N3 O9 P

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 114:38799

L20 ANSWER 12 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN 104562-05-2 REGISTRY

CN 1H-Imidazole-1-carboxylic acid, 4-[2-[[(1,1-dimethylethoxy)carbonyl]amino]-8-hydroxy-8-oxido-3,14-dioxo-11-[(1-oxodecyl)oxy]-7,9,13-trioxa-4-aza-8-phosphatricos-1-yl]-, 1,1-dimethylethyl ester, monosodium salt, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Imidazole-1-carboxylic acid, 4-[2-[[(1,1-dimethylethoxy)carbonyl]amino]-8-hydroxy-3,14-dioxo-11-[(1-oxodecyl)oxy]-7,9,13-trioxa-4-aza-8-phosphatricos-1-yl]-, 1,1-dimethylethyl ester, P-oxide, monosodium salt, [R-(R*,S*)]-

FS STEREOSEARCH.

MF C41 H73 N4 O13 P . Na

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CRN (104561-81-1)

Absolute stereochemistry.

Na

PAGE 1-B

- (CH₂)8

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 106:18987

L20 ANSWER 13 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN 104561-82-2 REGISTRY

CN Decanoic acid, 1-[9-amino-3-hydroxy-10-(1H-imidazol-4-yl)-3-oxido-8-oxo-2,4-dioxa-7-aza-3-phosphadec-1-yl]-1,2-ethanediyl ester, [R-(R*,S*)]-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Decanoic acid, 1-[9-amino-3-hydroxy-10-(1H-imidazol-4-yl)-8-oxo-2,4-dioxa-7-aza-3-phosphadec-1-yl]-1,2-ethanediyl ester, P-oxide, [R-(R*,S*)]-

FS STEREOSEARCH

MF C31 H57 N4 O9 P

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 106:18987

L20 ANSWER 14 OF 14 REGISTRY COPYRIGHT 2002 ACS

RN 104561-81-1 REGISTRY

CN 1H-Imidazole-1-carboxylic acid, 4-[2-[[(1,1-dimethylethoxy)carbonyl]amino]-8-hydroxy-8-oxido-3,14-dioxo-11-[(1-oxodecyl)oxy]-7,9,13-trioxa-4-aza-8-phosphatricos-1-yl]-, 1,1-dimethylethyl ester, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Imidazole-1-carboxylic acid, 4-[2-[[(1,1-dimethylethoxy)carbonyl]amino]-8-hydroxy-3,14-dioxo-11-[(1-oxodecyl)oxy]-7,9,13-trioxa-4-aza-8-phosphatricos-1-yl]-, 1,1-dimethylethyl ester, P-oxide, [R-(R*,S*)]-

FS STEREOSEARCH

MF C41 H73 N4 O13 P

CI COM

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 106:18987